

## Project Part 2

CS-GY 6083 sections A and INET Fall 2024

Prof Frankl

Due 11:59 pm Fri Nov 8, 2024

Using the project ER (*the prof and TA's solution to part 1*) posted on BrightSpace:

- A. Following the procedure we studied, convert the ER diagram to a relational database schema diagram. Remember to include all PRIMARY KEY and FOREIGN KEY constraints that follow from the conversion rules of ER to schema.
- B. Write CREATE TABLE statements to create the tables corresponding to those parts of the schema diagram needed for part C. Notes:
  - a. The various IDs are integers; room numbers are integers; shelf You may make any reasonable choices for other data types.
  - b. Remember to include all PRIMARY KEY and FOREIGN KEY from your schema.
  - c. Write a few INSERT statements to insert some data into these tables.
- C. Write SQL statements to
  - a. Record a new item that has been donated. It's a two-piece yellow sofa (category 'furniture', subcategory 'sofa'), donated by someone from your group. Their username should be their name as a single string, optionally with some numbers at the end. You may assign any itemID you'd like (or may look up how to use AutoIncrement). The pieces are the 'sofa body' and one 'cushion'. It will be stored in Room 5, without a shelf designated.
  - b. Produce a list of all of the (pieces) of items in order # 12345, along with their locations. This should have information that volunteers will find useful for locating the item when they're assembling the order, including the item IDs, their categories and subcategories, and the room and shelf where each piece is located. Optionally, you may include the description and other data.

**Note:** If you use a graphical user interface, such as phpMyAdmin or Workbench, to execute your SQL statements, you'll be able to export the populated tables and query results into readable formats in pdf files.

### How to hand it in:

Hand the schema diagram (part A) and the SQL statements (parts B and C) and the results of executing the SQL as a pdf file via GradeScope → Project2. **REMEMBER TO MARK WHICH PART IS WHICH**

Hand in the SQL (create table statements and queries) as text files (.txt or .sql file extension) via GradeScope → Project2-code. If you are using a DBMS other than MySQL (e.g. Oracle, etc) please note in a comment at the beginning of the file.